

In the Claims:

1. (previously presented) A shunt for squib that fits into a
2 socket opening in the surface of a housing of an inflator,
3 concaving from the opening in a cylindrical form into the
4 housing and having a fitting concave concaving from the
5 inner circumferential face, in the middle of the depth
6 direction, to the outer side of the radial direction, and
7 short-circuits a pair of pins of a squib rising from the
8 bottom of the socket,

9 the shunt comprising

10 a shunt body being formed into a cylinder to fit into
11 the socket and being provided, at the center thereof, with
12 a through connection hole into which the pair of pins of
13 the squib enter from the bottom side and a female connector
14 fits from the top side,

15 a short-circuit piece being provided to the shunt body
16 to contact the pair of pins of the squib when the shunt
17 body is fitted into the socket and to be pushed by the
18 female connector to move away from the pair of pins of the
19 squib when the female connector is fitted into the
20 connection hole, and

21 a protrusion being formed of an elastic material and
22 provided on the shunt body, and

23 the root end of the protrusion is provided on the
24 outer face of the shunt body, the protrusion extends from
25 the root end thereof in a direction tilting toward the
26 outside from the shunt body at an angle within 90 degrees

27 to a direction being parallel to the central axis of the
28 shunt body and heading toward the top thereof, and
29 it is arranged that when the top end of the protrusion
30 is pushed toward the connection hole of the shunt body, the
31 protrusion will undergo deformation by bending, and when
32 the shunt body fits into the socket, the protrusion will
33 restitute to protrude in the fitting concave.

1 2. (previously presented) The shunt for squib as recited in
2 claim 1,

3 wherein the shunt body is provided with an
4 accommodating concave concaving from the outer
5 circumferential face, the root end of the protrusion is
6 provided in the accommodating concave, and it is arranged
7 that when the top end of the protrusion is pushed toward
8 the connection hole of the shunt body, the protrusion will
9 undergo deformation by bending to shunt into the
10 accommodating concave.

1 3. (previously presented) The shunt for squib as recited in
2 claim 1,

3 wherein the top end of the protrusion is provided with
4 a restraining face which contacts or faces toward the face
5 closer to the opening of the socket among the faces
6 constituting the fitting concave when the shunt body is
7 fitted into the socket.

1 4. (previously presented) The shunt for squib as recited in
2 claim 2,

3 wherein the top end of the protrusion is provided with
4 a restraining face which contacts or faces toward the face
5 closer to the opening of the socket among the faces
6 constituting the fitting concave when the shunt body is
7 fitted into the socket.

1 5. (previously presented) The shunt for squib as recited in
2 claim 1,

3 wherein a stopper is protrusively provided on the
4 inner side of the top end of the protrusion, the stopper
5 contacts the socket inner circumferential face being closer
6 to the opening of the socket than the fitting concave when
7 the shunt body is fitted into the socket.

1 6. (previously presented) The shunt for squib as recited in
2 claim 2,

3 wherein a stopper is protrusively provided on the
4 inner side of the top end of the protrusion, the stopper
5 contacts the socket inner circumferential face being closer
6 to the opening of the socket than the fitting concave when
7 the shunt body is fitted into the socket.

1 7. (previously presented) The shunt for squib as recited in
2 claim 3,

3 wherein a stopper is protrusively provided on the
4 inner side of the top end of the protrusion, the stopper

5 contacts the socket inner circumferential face being closer
6 to the opening of the socket than the fitting concave when
7 the shunt body is fitted into the socket.

1 8. (previously presented) The shunt for squib as recited in
2 claim 4,

3 wherein a stopper is protrusively provided on the
4 inner side of the top end of the protrusion, the stopper
5 contacts the socket inner circumferential face being closer
6 to the opening of the socket than the fitting concave when
7 the shunt body is fitted into the socket.

1 9. (previously presented) The shunt for squib as recited in
2 claim 1,

3 wherein a stopper is provided on the outer side of the
4 top end of the protrusion, the stopper contacts the inner
5 part of the fitting concave when the shunt body is fitted
6 into the socket.

1 10. (previously presented) The shunt for squib as recited in
2 claim 2,

3 wherein a stopper is provided on the outer side of the
4 top end of the protrusion, the stopper contacts the inner
5 part of the fitting concave when the shunt body is fitted
6 into the socket.

1 11. (previously presented) The shunt for squib as recited in
2 claim 3,

3 wherein a stopper is provided on the outer side of the
4 top end of the protrusion, the stopper contacts the inner
5 part of the fitting concave when the shunt body is fitted
6 into the socket.

1 12. (previously presented) The shunt for squib as recited in
2 claim 4,

3 wherein a stopper is provided on the outer side of the
4 top end of the protrusion, the stopper contacts the inner
5 part of the fitting concave when the shunt body is fitted
6 into the socket.

1 13. (previously presented) The shunt for squib as recited in
2 claim 5,

3 wherein a stopper is provided on the outer side of the
4 top end of the protrusion, the stopper contacts the inner
5 part of the fitting concave when the shunt body is fitted
6 into the socket.

1 14. (previously presented) The shunt for squib as recited in
2 claim 6,

3 wherein a stopper is provided on the outer side of the
4 top end of the protrusion, the stopper contacts the inner
5 part of the fitting concave when the shunt body is fitted
6 into the socket.

1 15. (previously presented) The shunt for squib as recited in
2 claim 7,

3 wherein a stopper is provided on the outer side of the
4 top end of the protrusion, the stopper contacts the inner
5 part of the fitting concave when the shunt body is fitted
6 into the socket.

1 16. (previously presented) The shunt for squib as recited in
2 claim 8,

3 wherein a stopper is provided on the outer side of the
4 top end of the protrusion, the stopper contacts the inner
5 part of the fitting concave when the shunt body is fitted
6 into the socket.

1 17. (new) A shunt for a squib adapted to fit into a socket
2 opening of an inflator housing that has a concave recess in
3 an inner circumferential wall bounding said socket opening,
4 wherein said shunt comprises:

5 a shunt body configured to be inserted into said
6 socket opening with a front end of said shunt body
7 penetrating into said socket opening and a rear end of said
8 shunt body facing out of said socket opening, and having a
9 hole therein adapted to receive a female connector fitted
10 therein; and

11 a protrusion formed of an elastic material and
12 protruding radially outwardly away from said shunt body at
13 an acute angle relative to a central axis of said shunt

14 body with a vertex of said acute angle oriented toward said
15 front end of said shunt body;

16 wherein said protrusion is configured and arranged to
17 be elastically deflected toward said central axis of said
18 shunt body by contacting said inner circumferential wall as
19 said shunt body is being inserted into said socket opening,
20 and to restitute elastically outwardly to protrude and
21 engage into said concave recess when insertion of said
22 shunt body into said socket opening is completed.

1 18. (new) An electrical connection arrangement comprising:

2 a component having a socket recessed into an outer
3 surface thereof, having a concave recess in an inner
4 circumferential wall bounding said socket, and having two
5 electrical contact pins located in said socket and
6 protruding in a direction of a central axis of said
7 arrangement from a socket floor of said socket toward said
8 outer surface of said component;

9 a shunt comprising a shunt body that includes an
10 annular wall which bounds a fitting hole therein, and that
11 is dimensioned and shaped to be fitted into said socket
12 with said pins protruding into said fitting hole, and
13 further comprising an electrically conductive short-circuit
14 piece which contacts and short-circuits said pins when said
15 shunt body is fitted into said socket, and a protrusion
16 formed of an elastic material and protruding radially
17 outwardly away from said shunt body at an acute angle
18 relative to said central axis with a vertex of said acute

19 angle oriented into said socket, wherein said protrusion is
20 configured and arranged to be elastically deflected toward
21 said central axis by contacting said inner circumferential
22 wall as said shunt body is being inserted into said socket,
23 and to restitute elastically outwardly to protrude and
24 engage into said concave recess when insertion of said
25 shunt body into said socket is completed; and

26 an electrical connector plug dimensioned and shaped to
27 be plugged in said direction of said central axis into said
28 fitting hole of said shunt body which is fitted into said
29 socket, with said pins being received in an opening of said
30 plug, and further including a configuration that is shaped
31 and positioned to deflect said short-circuit piece out of
32 electrical contact with at least one of said pins when said
33 plug is plugged into said fitting hole.

[REMARKS CONTINUE ON NEXT PAGE]